

FIG. 1A HUMAN SEGMENT E: (SEQ ID NOS:1-2)

ATG Met 1	AGA Arg	TGG Trp	CGA Arg	CGC Arg 5	GCC Ala	CCG Pro	CGC Arg	CGC Arg	TCC Ser 10	GGG Gly	CGT Arg	CCC Pro	GGC Gly	CCC Pro 15	CGG Arg		48
GCC Ala	CAG Gln	CGC Arg	CCC Pro 20	GGC Gly	TCC Ser	GCC Ala	GCC Ala	CGC Arg 25	TCG Ser	TCG Ser	CCG Pro	CCG Pro	CTG Leu 30	CCG Pro	CTG Leu		96
CTG Leu	CCA Pro	CTA Leu 35	CTG Leu	c†G Leu	CTG Leu	CTG Leu	GGG Gly 40	ACC Thr	GCG Ala	GCC Ala	CTG Leu	GCG Ala 45	CCG Pro	GGG Gly	GCG Ala		144
GCG Ala	GCC Ala 50	GGC Gly	AAC Asn	GAG Glu	GCG Ala	GCT Ala 55	CCC Pro	GCG Ala	GGG Gly	GCC Ala	TCG Ser 60	GTG Val	TGC Cys	TAC Tyr	TCG Ser		192
TCC Ser 65	CCG Pro	CCC Pro	AGC Ser	GTG Val	GGA Gly 70	TCG Ser	GTG Val	CAG Gln	GAG Glu	CTA Leu 75	GCT Ala	CAG Gln	CGC Arg	GCC Ala	GCG Ala 80	•	240
GTG Val	GTG Val	ATC Ile	GAG Glu	GGA Gly 85	AAG Lys	GTG Val	CAC His	CCG Pro	CAG Gln 90	CGG Arg	CGG Arg	CAG Gln	CAG Gln	GGG Gly 95	GCA Ala		288
CTC Leu	GAC Asp	AGG Arg	AAG Lys 100	Ala	GCG Ala	GCG Ala	Ala	GCG Ala 105	GGC Gly	GAG Glu	GCA Ala	Gly	GCG Ala 110	TGG Trp	GGC Gly		336
GGC Gly	GAT Asp	CGC Arg 115		CCG Pro	CCA Pro	GCC Ala	GCG Ala 120	Gly	CCA Pro	CGG Arg	GCG Ala	CTG Leu 125	Gly	CCG Pro	CCC Pro		384
GCC Ala	GAG Glu 130	Glu	CCG Pro	CTG Leu	CTC Leu	GCC Ala 135	Ala	AAC Asn	GGG Gly	ACC Thr	GTG Val 140	Pro	TCT Ser	TGG Trp	CCC Pro		432
ACC Thr 145	· Ala	CCG Pro	GTG Val	CCC Pro	AGC Ser 150	Ala	GGC Gly	GAG Glu	CCC Pro	GGG Gly 155	Glu	GAG Glu	GCG Ala	CCC Pro	TAT Tyr 160		480
CTG Leu	GTG Val	Lys	GTG Val	CAC His 165	Gin	GTG Val	TGG Trp	GCG Ala	GTG Val 170	Lys	GCC Ala	GGG Gly	GGC Gly	Leu 175	AAG Lys		528
AA(Lys	GA(S Asp	C TCC Ser	CT(Lei 18(ı Leı	ACC Thr	GTG Val	GCGC Arc	CTO Let 185	ı Gly	ACC Thr	TGG Trp	GGC Gly	CAC His 190	Pro	GCC Ala		576

FIG. 1B

TTC Phe	CCC Pro	TCC Ser 195	TGC Cys	GGG Gly	AGG Arg	CTC Leu	AAG Lys 200	GAG Glu	GAC Asp	AGC Ser	AGG Arg	TAC Tyr 205	ATC Ile	TTC Phe	TTC Phe	624
ATG Met	GAG Glu 210	CCC Pro	GAC Asp	GCC Ala	AAC Asn	AGC Ser 215	ACC Thr	AGC Ser	CGC Arg	GCG Ala	CCG Pro 220	GCC Ala	GCC Ala	TTC Phe	CGA Arg	672
GCC Ala 225	TCT Ser	TTC Phe	CCC Pro	CCT Pro	CTG Leu 230	GAG Glu	ACG Thr	GGC Gly	CGG Arg	AAC Asn 235	CTC Leu	AAG Lys	AAG Lys	GAG G1u	GTC Val 240	720
						CGG Arg	TGC Cys	G								745

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FIG.2 SEGMENT E: (SEQ ID NOS:3-4)

CC (CAT (His (CAA (Gln \	GTG T	TGG G Trp A	GCG G Ala A 5	GCG A	AA G .ys A	iCC G la G	iGG G	GC Tily L	TG A .eu L	AG A .ys L	AG G .ys A	AC T ISP S	CG er 15	47
CTG Leu	CTC Leu	ACC Thr	GTG Val	CGC Arg 20	CTG Leu	GGC Gly	GCC Ala	TGG Trp	GGC Gly 25	CAC His	CCC Pro	GCC Ala	TTC Phe	CCC Pro 30	TCC Ser	95
TGC Cys	GGG Gly	CGC Arg	CTC Leu 35	AAG Lys	GAG Glu	GAC Asp	AGC Ser	AGG Arg 40	TAC Tyr	ATC Ile	TTC Phe	TTC Phe	ATG Met 45	GAG Glu	CCC Pro	143
GAG Glu	GCC Ala	AAC Asn 50	Ser	AGC Ser	GGC Gly	GGG Gly	CCC Pro 55	GGC Gly	CGC Arg	CTT Leu	CCG Pro	AGC Ser 60	CTC Leu	CTT Leu	CCC Pro	191
CCC Pro	TCT Ser 65	Arg	GAC Asp	GGG Gly	CCG Pro	GAA Glu 70	Pro	CAA Gln	GAA Glu	GGA Gly	GGT Gly 75	GIII	CCG Pro	GGT Gly	GCT Ala	239
	G CAA 1 Glr 0															252
								F	IG.	3						

FIG. 3 SEGMENT B: (SEQ ID NOS:5-8)

Leu Pro Pro Arg Leu Lys Glu His Lys Ser Gln CCT TGC CTC CCC GCT TGA AAG AGA TGA AGA GTC III III III III III III III III III CCT TGC CTC CCC GAT TGA AAG AGA TGA AAA GCC Q	AUG AUT CTU TUU CAU	ı
Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser GTT CCA AAC TAG TGC TTC GGT GCG AGA CCA GTT	CIG AAT ACT CCT CTC	;
Lys Phe Lys Trp Phe Lys Asn Gly Ser Glu Leu TCA AGT TCA AGT GGT TCA AGA ATG GGA GTG AAT 	TAA UUU UAA AUA AUA	1
Pro Gly Asn Ile Lys Ile Gln Lys Arg Pro Gly AAC CAC AAA ACA TCA AGA TAC AGA AAA GGC CGG 	1/4	8

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FIG 4 SEGMENT A: (SEQ ID NOS:9-12)

G AAG TCA GAA CTT CGC ATT AGC AAA GCG TCA CTG GCT GAT TCT GGA	46
Glu Tyr Met Cys Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser GAA TAT ATG TGC AAA GTG ATC AGC AAA CTA GGA AAT GAC AGT GCC TCT 	94
Ala Asn Ile Thr Ile Val Glu Ser Asn Ala GCC AAC ATC ACC ATT GTG GAG TCA AAC G	122

FIG.5 SEGMENT A': (SEQ ID NOS:13-14)

TCTAAAACTA CAGAGACTGT ATTTTCATGA TCATCATAGT TCTGTGAAAT ATACTTAAAC	60
CGCTTTGGTC CTGATCTTGT AGG AAG TCA GAA CTT CGC ATT AGC AAA GCG Lys Ser Glu Leu Arg Ile Ser Lys Ala 1 5	110
TCA CTG GCT GAT TCT GGA GAA TAT ATG TGC AAA GTG ATC AGC AAA CTA Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys Lys Val Ile Ser Lys Leu 10 15 20 25	158
GGA AAT GAC AGT GCC TCT GCC AAC ATC ACC ATT GTG GAG TCA AAC GGT Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr Ile Val Glu Ser Asn Gly 30 35 40	206
AAG AGA TGC CTA CTG CGT GCT ATT TCT CAG TCT CTA AGA GGA GTG ATC Lys Arg Cys Leu Leu Arg Ala Ile Ser Gln Ser Leu Arg Gly Val Ile 45 50 55	254
AAG GTA TGT GGT CAC ACT TGAATCACGC AGGTGTGTGA AATCTCATTG Lys Val Cys Gly His Thr 60	302
TGAACAAATA AAAATCATGA AAGGAAAACT CTATGTTTGA AATATCTTAT GGGTCCTCCT	362
GTAAAGCTCT TCACTCCATA AGGTGAAATA GACCTGAAAT ATATATAGAT TATTT	417

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FIG. 7
SEGMENT C: (SEQ ID NOS:19-22)

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FIG. 8 SEGMENT C/D: (SEQ ID NOS:23-26)

Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn Val Pro AAG TGC CAA CCT GGA TTC ACT GGA GCG AGA TGT ACT GAG AAT GTG CCC 48 ACT GGA GCA AGA TGT ACT GAG AAT GTG CCC Met Lys Val Gln Thr Gln Glu ATG AAA GTC CAA ACC CAA GAA 69 ATG AAA GTC CAA AAC CAA GAA

> FIG. 9 SEGMENT C/D': (SEQ ID NOS:27-29)

Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met AAG TGC CCA AAT GAG TTT ACT GGT GAT CGC TGC CAA AAC TAC GTA ATG 48 TGC CCA AAT GAG TTT ACT GGT GAT CGC TGC CAA AAC TAC GTA ATG Ala Ser Phe Tyr GCC AGC TTC TAC 60 GCC AGC TTC TAC

> FIG. 10 SEGMENT D: (SEQ ID NOS:30-32)

Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro Glu * 36 AGT ACG TCC ACT CCC TTT CTG TCT CTG CCT GAA TAG HH CTG TCT CTG CCT GAA TAG

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FIG. 11 SEGMENT D': (SEQ ID NOS:33-34)

Lys His Leu Gly Ile Glu Phe Met Glu AAG CAT CTT GGG ATT GAA TTT ATG GAG

27

FIG. 12A SEGMENT H: (SEQ ID NOS:35-38)

ΔΔΔ	GCG	GAG	GAG	CTC	Tyr TAC TAC	CAG	AAG	AGA	GTG	CTC	ACC	ATT	ACC	GGC	All	48
TGC	ATC	GCG	CTG	CTC	Val GTG []] GTG	GTI	GGC	AIC	AIG	IGI	GIG	616	GIL	IAC	166	96
AAA	ACC	AAG	AAA	CAA	Arg CGG CGG	AAA	AAG	CTT	CAT	GAC	CGG	CH	CGG	CAG	AGC	144
Leu CTT CTT	CGG	TCT	GAA	AGA	Asn AAC AAC	ACC	ATG	ATG	AAC	GIA	GCC	AAC	GGG		LAL	192
CAC	CCC	AAT	CCG	CCC	Pro CCC 111 CCC	GAG	AAC	GTG	CAG	CTG	GTG	AAT	CAA	TAC	GIA	240
TCT	AAA	TAA	GTC	. ATC	Ser TCT II TCC	AGC	GAG	CAT	ATT	GTT	GAG	AGA	GAG	GCG	Glu GAG []] GAG	288
AGC I	TCT	П	TCC	ACC III	Ser AGT AGT	CAC	: TAC	ACT	TCG	ACA 	GCT	CAT	CAI	100	Thr ACT III ACT	336

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FIG. 12B

ACT	CTC	ACT	$C \wedge C$	ACT.	CCC	AGT	$C \Delta C$	ΔGG	1(-1-	Alat.	AAI	Gly GGA GGA	LAL	AUI	UAA	384
ACC	ATC.	۸TT	TCC	$G \Lambda \Lambda$	ΔGC	$C\Delta C$	\mathcal{A}^{-1}	GIC	AH.	(a) (a	AlG	Ser TCA TCA	166	GIA	GAA	432
A A C	ACT	ACC.	$C \wedge C$	۸GC	Δ GC	CCG	ACL	(1(1(1	(atat.	LLG	AUA	Gly GGA GGA	LGI		AHI	480
CCC	TTC	CCV	CCC	$\Gamma \cap \Gamma$	CGT	GAA	TGI	AAC	AGC	116	しし	Arg AGG AGG	CAI	はしし	AGA	528
$C\Delta\Delta$. ልሰሰ	· rrt	GAC	. TCC	LAC	LGA	GAL	- 101	ししし	CAI	AGI	Glu GAA []] GAA	AG			569

FIG. 13 SEGMENT K: (SEQ ID NOS:39-40)

A CAT AAC CTT ATA GCT GAG CTA AGG AGA AAC AAG GCC CAC AGA TCC His Asn Leu Ile Ala Glu Leu Arg Arg Asn Lys Ala His Arg Ser 1 5	46
AAA TGC ATG CAG ATC CAG CTT TCC GCA ACT CAT CTT AGA GCT TCT TCC Lys Cys Met Gln Ile Gln Leu Ser Ala Thr His Leu Arg Ala Ser Ser 20 25 30	94
ATT CCC CAT TGG GCT TCA TTC TCT AAG ACC CCT TGG CCT TTA GGA AG Ile Pro His Trp Ala Ser Phe Ser Lys Thr Pro Trp Pro Leu Gly Arg 45	141

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FIG. 14A SEGMENT L: (SEQ ID NOS:41-44)

Tyr Val Ser Ala Met Thr Thr Pro Ala Arg Met Ser Pro Val Asp G TAT GTA TCA GCA ATG ACC ACC CCG GCT CGT ATG TCA CCT GTA GAT 	46
Phe His Thr Pro Ser Ser Pro Lys Ser Pro Pro Ser Glu Met Ser Pro TTC CAC ACG CCA AGC TCC CCC AAG TCA CCC CCT TCG GAA ATG TCC CCG LII LII LII LII LII LII LII LII LII LI	94
Pro Val Ser Ser Thr Thr Val Ser Met Pro Ser Met Ala Val Ser Pro CCC GTG TCC AGC ACG GTC TCC ATG CCC TCC ATG GCG GTC AGT CCC III	142
Phe Val Glu Glu Arg Pro Leu Leu Val Thr Pro Pro Arg Leu TTC GTG GAA GAG GAG AGA CCC CTG CTC CTT GTG ACG CCA CCA CGG CTG III II III III III III III III III II	190
Arg Glu Lys - Tyr Asp His His Ala Gln Gln Phe Asn Ser Phe His CGG GAG AAG TAT GAC CAC CAC GCC CAG CAA TTC AAC TCG TTC CAC III III III III III III III III II	238
Cys Asn Pro Ala His Glu Ser Asn Ser Leu Pro Pro Ser Pro Leu Arg TGC AAC CCC GCG CAT GAG AGC AAC AGC CTG CCC CCC AGC CCC TTG AGG 	286
Ile Val Glu Asp Glu Glu Tyr Glu Thr Thr Gln Glu Tyr Glu Pro Ala ATA GTG GAG GAT GAG GAA TAT GAA ACG ACC CAG GAG TAC GAA CCA GCT 	334
Gln Glu Pro Val Lys Lys Leu Thr Asn Ser Ser Arg Arg Ala Lys Arg CAA GAG CCG GTT AAG AAA CTC ACC AAC AGC AGC CGG CGG GCC AAA AGA 	382

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FIG. 14B

ACC	AAG	CCC	AAT	GGT	CAC	ATT	GCC	CAC	AGG	116	GAA	AIG	GAC	Asn AAC I I AGC S	AAC	430
ACA	GGC	GCT 	Asp GAC CAG Q	AGC	AGT	AAC	TCA	GAG	AGC 11	GAA	ACA	GAG	GAT	Glu GAA GAA	AGA 111	478
GTA	GGA	GAA	Asp GAT []] GAT	ACG	CCT	TTC	CTG	GCC	AIA	CAG	AAC	Pro CCC CCC	Leu CTG []] CTG	Ala GCA GCA	GCC	526
Ser AGT AGT	Leu CTC CTT	GAG	GCG	GCC	CCT	GCC	TTC	CGC	CTG	GTC	GAC	AGC	AGG	Thr ACT []] ACT	AAC	574
CCA	ACA	GGC	GGC	TTC	TCT	CCG	CAG	GAA	GAA	-11G	CAG	GCC	AGG	Leu CTC CTG	166	622
GGT	GTA	ATC	-111	AAC	CAA	GAC	CCT	ATC 11	GCT	GTC	TAA	- 111	1 1	AAT AAT	ACA AAA	670
CCC CAC	\prod	GAT	. 111	-111	-111	111	CTT []] CTT	-111	111	111	-111			ATT ATT	CCA []] CCA	718
111	111		AAA	111	1											733

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FIG. 15 SEGMENT F: (SEQ ID NOS:45-48)

AGTITUCCCC	CCCAACTIGT	CGGAACTCTG	GGC 1 CGCGCG	CAGGGCAGGA	GLGGAGLGGL	60
GGCGGCTGCC	CAGGCGATGC	GAGCGCGGGC	CGGACGGTAA	TCGCCTCTCC	CTCCTCGGGC	120
TGCGAGCGCG	CCGGACCGAG	GCAGCGACAG	GAGCGGACCG	CGGCGGGAAC	CGAGGACTCC	180
CCAGCGGCGC	GCCAGCAGGA	GCCACCCCGC	GAGNCGTGCG	ACCGGGACGG	AGCGCCCGCC	240
AGTCCCAGGT	GGCCCGGACC	GCACGTTGCG	TCCCCGCGCT	CCCCGCCGGC	GACAGGAGAC	300
GCTCCCCCC		CGCCTCGGCC CGCCTCAGCG				360
		CCCAGCCCTC CCGAGCCCTT			TCGCCTTCGC TCGCCTGCGC	420
CGGGAGCCGT CGAGAGCCGT	CCGCGCAGAG CCGCGTAGAG	CGTGCACTTC CGCTC.CGTC	TCGGGCGAG /	Met Ser Glu ATG TCG GAG ATG TCC GAG	Arg Arg CGC AGA CGC AAA K	474
		ly Lys Gly (GG AAG GGC (GG AAG GGC /				522
	1 1 1 1	la Ala Gly CG GCT GGC CG GCG GGC		1111		559

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FIG. 16A (SEQ ID NOS:49-50)

G AA Ly 1	G TC s Se	A GA r Gl	A CT u Le	T CG u Ar 5	C AT	T AG e Se	iC AA er Ly	A GC 's Al	a Se	A CT er Le .0	G GC eu Al	T GA a As	AT TO Sp Se	T GG er Gl	A GAA y Glu 5	1 /	49
TAT Tyr	ATG Met	TGC Cys	AAA Lys 20	GTG Val	ATC Ile	AGC Ser	AAA Lys	CTA Leu 25	GGA Gly	AAT Asn	GAC Asp	AGT Ser	GCC Ala 30	TCT Ser	GCC Ala		97
AAC Asn	ATC Ile	ACC Thr 35	ATT Ile	GTG Va 1	GAG G1u	TCA Ser	AAC Asn 40	GCC Ala	ACA Thr	TCC Ser	ACA Thr	TCT Ser 45	ACA Thr	GCT Ala	GGG Gly		145
ACA Thr	AGC Ser 50	CAT His	CTT Leu	GTC Val	AAG Lys	TGT Cys 55	GCA Ala	GAG Glu	AAG Lys	GAG G1u	AAA Lys 60	ACT Thr	TTC Phe	TGT Cys	GTG Val		193
AAT Asn 65	GGA Gly	GGC Gly	GAC Asp	TGC Cys	TTC Phe 70	ATG Met	GTG Val	AAA Lys	GAC Asp	CTT Leu 75	TCA Ser	AAT Asn	CCC Pro	TCA Ser	AGA Arg 80		241
TAC Tyr	TTG Leu	TGC Cys	AAG Lys	TGC Cys 85	CAA Gln	CCT Pro	GGA Gly	TTC Phe	ACT Thr 90	GGA Gly	GCG Ala	AGA Arg	TGT Cys	ACT Thr 95	GAG Glu		289
AAT Asn	GTG Val	CCC Pro	ATG Met 100	AAA Lys	GTC Val	CAA Gln	Thr	CAA Gln 105	GAA Glu	AAA Lys	GCG Ala	Glu	GAG Glu 110	CTC Leu	TAC Tyr		337
CAG Gln	AAG Lys	AGA Arg 115	GTG Val	CTC Leu	ACC Thr	ATT Ile	ACC Thr 120	GGC Gly	ATT Ile	TGC Cys	ATC Ile	GCG Ala 125	CTG Leu	CTC Leu	GTG Val		385
													AAA Lys				433
													GAA Glu				481
													CCG Pro				529
				Leu					Val				GTC Val 190				577

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FIG. 16B

												TTT Phe 205				625
CAC His	TAC Tyr 210	ACT Thr	TCG Ser	ACA Thr	GCT Ala	CAT His 215	CAT His	TCC Ser	ACT Thr	ACT Thr	GTC Val 220	ACT Thr	CAG Gln	ACT Thr	CCC Pro	673
AGT Ser 225	His	AGC Ser	TGG Trp	AGC Ser	AAT Asn 230	GGA Gly	CAC His	ACT Thr	GAA Glu	AGC Ser 235	ATC Ile	ATT Ile	TCG Ser	GAA Glu	AGC Ser 240	721
CAC His	TCT Ser	GTC Val	ATC Ile	GTG Val 245	ATG Met	TCA Ser	TCC Ser	GTA Val	GAA G1u 250	AAC Asn	AGT Ser	AGG Arg	CAC His	AGC Ser 255	AGC Ser	769
CCG Pro	ACT Thr	GGG Gly	GGC Gly 260	CCG Pro	AGA Arg	GGA Gly	CGT Arg	CTC Leu 265	AAT Asn	GGC Gly	TTG Leu	GGA Gly	GGC Gly 270	CCT Pro	CGT Arg	817
GAA Glu	TGT Cys	AAC Asn 275	AGC Ser	TTC Phe	CTC Leu	AGG Arg	CAT His 280	GCC Ala	AGA Arg	GAA Glu	ACC Thr	CCT Pro 285	GAC Asp	TCC Ser	TAC Tyr	865
		Ser										GCT Ala				913
	Asn											CAG Gln				961
					Ser							TCA Ser				1009
				Leu					Ser			ACC Thr				1057
			Pro					Thr				CCC Pro 365	Lys			1105
		Glu					Val					Val			CCC Pro	1153

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FIG. 16C

TCC ATG GCG GTC AG Ser Met Ala Val Se 385			rg Pro Leu Leu	
GTG ACG CCA CCA CG Val Thr Pro Pro Ar 40	, Leu Arg Glu			
TTC AAC TCG TTC CA Phe Asn Ser Phe Hi 420				
CCC AGC CCC TTG AG Pro Ser Pro Leu Ar 435				
GAG TAC GAA CCA GC Glu Tyr Glu Pro Al 450			eu Thr Asn Ser	
CGG CGG GCC AAA AG Arg Arg Ala Lys Ar 465	A ACC AAG CCC Thr Lys Pro 470	AAT GGT CAC AT Asn Gly His II 475	le Ala His Arg	TTG 1441 Leu 480
GAA ATG GAC AAC AA Glu Met Asp Asn As 48	n Thr Gly Ala			
ACA GAG GAT GAA AG Thr Glu Asp Glu Ar 500	A GTA GGA GAA g Val Gly Glu	GAT ACG CCT TT Asp Thr Pro Ph 505	TC CTG GCC ATA he Leu Ala Ile 510	CAG 1537 Gln
AAC CCC CTG GCA GC Asn Pro Leu Ala Al 515	C AGT CTC GAG a Ser Leu Glu 520	Ala Ala Pro Al	CC TTC CGC CTG la Phe Arg Leu 525	GTC 1585 Val
GAC AGC AGG ACT AA Asp Ser Arg Thr As 530		Gly Phe Ser Pr		
CAG GCC AGG CTC TO Gln Ala Arg Leu Se 545				
TAAAACCGAA ATACACC	CAT AGATTCACO	CT GTAAAACTTT A	AAATA ATATATTT	AGTATT 1741
CCACCTTAAA TTAAACA	AAA AAA			1764

FIG. 17A (SEQ ID NOS:51-52)

							TCG Ser 15		48
							TCC Ser		96
							CCC Pro		144
							CCC Pro		192
							GCT Ala		240
							CAG Gln 95		288
							TCT Ser		336
							TTA Leu		384
							GGG Gly		432
Glu							GAA Glu		480
		Ser					GCC Ala 175		528





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FIG. 17B

ATC ACC Ile Thr															576
AGC CAT Ser His															624
GGA GGC Gly Gly 210															672
TTG TGC Leu Cys 225															720
GTG CCC Val Pro															768
GGT GAT Gly Asp															816
ACT CCC Thr Pro							TAGO	CGCA [*]	rct (CAGT	CGGT(GC C	GCTTT	TCTTG	870
TTGCCGCA	ATC T	rccc(CTCAC	GA T	rccn(CCTAC	G AGO	CTAGA	ATGC	GTT	TTAC	CAG (GTCTA	ACATT	930
GACTGCC1	rct (GCCT(GTCG	CA TO	GAGA	ACAT	Γ ΑΑ(CACA	AGCG	ATT	GTAT(GAC :	TTCC	rctgtc	990
CGTGACTA	AGT (GGGC	TCTG/	AG C	TACT	CGTA	G GT(GCGTA	AAGG	CTC	CAGT(GTT .	TCTGA	AAATTG	1050
ATCTTGAA	ATT A	ACTG	TGATA	AC GA	ACAT(GATA(G TC	CCTC	TCAC	CCA	GTGC	4 AT (GACA	ATAAAG	1110
GCCTTGAA	AAA (GTCA	4444	AA AA	ممم	ممم	4								1140

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FIG. 18A (SEQ ID NOS:53-54)

AGTTTCCCCC CCCAACTTGT CGGAACTCTG GGCTCGCGCG CAGGGCAGGA GCGGAGCGGC	60
GGCGGCTGCC CAGGCGATGC GAGCGCGGGC CGGACGGTAA TCGCCTCTCC CTCCTCGGGC	120
TGCGAGCGCG CCGGACCGAG GCAGCGACAG GAGCGGACCG CGGCGGGAAC CGAGGACTCC	180
CCAGCGGCGC GCCAGCAGGA GCCACCCCGC GAGCGTGCGA CCGGGACGGA GCGCCCGCCA	240
GTCCCAGGTG GCCCGGACCG CACGTTGCGT CCCCGCGGCTC CCCGCCGGCG ACAGGAGACG	300
CTCCCCCCA CGCCGCGC GCCTCGGCCC GGTCGCTGGC CCGCCTCCAC TCCGGGGACA	360
AACTTTTCCC GAAGCCGATC CCAGCCCTCG GACCCAAACT TGTCGCGCGT CGCCTTCGCC	420
GGGAGCCGTC CGCGCAGAGC GTGCACTTCT CGGGCGAG ATG TCG GAG CGC AGA Met Ser Glu Arg 1 5	473
GAA GGC AAA GGC AAG GGG AAG GGC GGC AAG AAG	521
AAG AAG CCC GTG CCC GCG GCT GGC GGC CCG AGC CCA GCC TTG CCT CCC Lys Lys Pro Val Pro Ala Ala Gly Gly Pro Ser Pro Ala Leu Pro Pro 25 30 35	569
CGC TTG AAA GAG ATG AAG ATG CAG GAG TCT GTG GCA GGT TCC AAA CTA Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Val Ala Gly Ser Lys Leu 40 45 50	617
GTG CTT CGG TGC GAG ACC AGT TCT GAA TAC TCC TCT CTC AAG TTC AAG Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser Ser Leu Lys Phe Lys 55 60 65	665
TGG TTC AAG AAT GGG AGT GAA TTA AGC CGA AAG AAC AAA CCA CAA AAC Trp Phe Lys Asn Gly Ser Glu Leu Ser Arg Lys Asn Lys Pro Gln Asn 70 80 85	713
ATC AAG ATA CAG AAA AGG CCG GGG AAG TCA GAA CTT CGC ATT AGC AAA Ile Lys Ile Gln Lys Arg Pro Gly Lys Ser Glu Leu Arg Ile Ser Lys 90 95 100	761
GCG TCA CTG GCT GAT TCT GGA GAA TAT ATG TGC AAA GTG ATC AGC AAA Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys Lys Val Ile Ser Lys 105 110 115	809

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FIG. 18B

CTA GGA AAT GAC AGT GCC TCT GCC AAC ATC ACC ATT GTG GAG TCA AAC Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr Ile Val Glu Ser Asn 120 125 130	857
GAG ATC ACC ACT GGC ATG CCA GCC TCA ACT GAG ACA GCG TAT GTG TCT Glu Ile Thr Thr Gly Met Pro Ala Ser Thr Glu Thr Ala Tyr Val Ser 135	905
TCA GAG TCT CCC ATT AGA ATA TCA GTA TCA ACA GAA GGA ACA AAT ACT Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr Glu Gly Thr Asn Thr 150 165	953 ′ <i>#</i>
TCT TCA TCC ACA TCC ACA TCT ACA GCT GGG ACA AGC CAT CTT GTC AAG Ser Ser Ser Thr Ser Thr Ser Thr Ala Gly Thr Ser His Leu Val Lys 170 175 180	1001
TGT GCA GAG AAG GAG AAA ACT TTC TGT GTG AAT GGA GGC GAG TGC TTC Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe 185	1049
ATG GTG AAA GAC CTT TCA AAT CCC TCA AGA TAC TTG TGC AAG TGC CCA Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys Cys Pro 200 205 210	1097
AAT GAG TTT ACT GGT GAT CGC TGC CAA AAC TAC GTA ATG GCC AGC TTC Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met Ala Ser Phe 215 220 225	1145
TAC AGT ACG TCC ACT CCC TTT CTG TCT CTG CCT GAA TAGGCGCATG Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro Glu 230 235 240	1191
CTCAGTCGGT GCCGCTTTCT TGTTGCCGCA TCTCCCCTCA GATTCAACCT AGAGCTAGAT	1251
GCGTTTTACC AGGTCTAACA TTGACTGCCT CTGCCTGTCG CATGAGAACA TTAACACAAG	1311
CGATTGTATG ACTTCCTCTG TCCGTGACTA GTGGGCTCTG AGCTACTCGT AGGTGCGTAA	1371
GGCTCCAGTG TTTCTGAAAT TGATCTTGAA TTACTGTGAT ACGACATGAT AGTCCCTCTC	1431
ACCCAGTGCA ATGACAATAA AGGCCTTGAA AAGTCTCACT TTTATTGAGA AAATAAAAAT	1491
CGTTCCACGG GACAGTCCCT CTTCTTTATA AAATGACCCT ATCCTTGAAA AGGAGGTGTG	1551
TTAAGTTGTA ACCAGTACAC ACTTGAAATG ATGGTAAGTT CGCTTCGGTT CAGAATGTGT	1611
TCTTTCTGAC AAATAAACAG AATAAAAAAAA AAAAAAAAAA	1652